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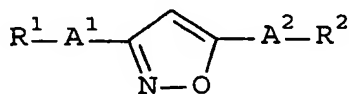
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(54) Title: NEW PROCESS



(II)

(57) Abstract: The present invention relates to a process for preparing a pharmaceutical starting compound compound by hydrolyzing a compound of the general formula (II): Wherein R¹ is protected carboxy, R² is lower alkoxy or higher alkoxy, A¹ is an aromatic bivalent group, heterocyclic bivalent group or cyclo (lower) alkane bivalent group, and A² is an aromatic bivalent group, heterocyclic bivalent group or cyclo (lower) alkane bivalent group, with aqueous potassium hydroxide and by treating with hydrochloric acid.

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 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 C07D261/08 C07K7/56

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 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 C07D C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96 11210 A (FUJISAWA PHARMACEUTICAL CO., LTD.) 18 April 1996 (1996-04-18) cited in the application the whole application, particularly preparation 165 -----	1-17

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9611210	A	18-04-1996	
		AT 229541 T	15-12-2002
		AU 696949 B2	24-09-1998
		AU 3578095 A	02-05-1996
		BR 9504791 A	22-10-1996
		CA 2202058 A1	18-04-1996
		CN 1168675 A	24-12-1997
		DE 69529172 D1	23-01-2003
		DE 69529172 T2	17-04-2003
		DK 788511 T3	31-03-2003
		EP 0788511 A1	13-08-1997
		ES 2187575 T3	16-06-2003
		FI 971397 A	27-05-1997
		HU 77736 A2	28-07-1998
		IL 115484 A	16-07-2000
		WO 9611210 A1	18-04-1996
		JP 10324695 A	08-12-1998
		JP 2897427 B2	31-05-1999
		JP 10507174 T	14-07-1998
		NO 971544 A	04-06-1997
		OA 10475 A	08-04-2002
		PT 788511 T	30-04-2003
		RU 2165423 C2	20-04-2001
		TR 960461 A2	21-07-1996
		US 6265536 B1	24-07-2001
		US 6107458 A	22-08-2000
		ZA 9508458 A	07-05-1996